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# DEAMS

## Government Top 5 Requirements and Risks

2/11/2004



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# Requirement 1 – Meet Functional Requirements with COTS

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- Description/Notes
  - The new DEAMS system is required to meet all the specified functional requirements with a COTS product.
  - Known COTS products provide commercially acceptable versions of required functionality, but may have problems meeting regulatory direction and gaining user and management acceptance
  - Customizing or augmenting COTS packages can eliminate regulatory deficiencies, but can adversely impact schedule and cost
  - Business process reengineering can eliminate problems with user and management acceptance, but can impact schedule



# Requirement 1 Risks - Meet Functional Requirements with COTS

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- Risk #1: COTS fails to meet regulatory requirements
  - Probability:
  - Impact :
- Risk #2: COTS functionality fails to meet user expectations
  - Probability:
  - Impact :
- Risk #3: COTS functionality fails to meet management expectations
  - Probability:
  - Impact :



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## Requirement 2 - Provide Full Functionality within Schedule

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- Description/Notes
  - DEAMS plans to implement full financial management support as specified in the SRD with the release of the initial increment to Scott AFB in twelve months
  - Subsequent increments expand the user base and required interfaces, but incorporate the same basic functionality as the first increment
  - It may be difficult to implement all the specified requirements and complete all the business process re-engineering needed within the current schedule



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## Requirement 2 Risks - Provide Full Functionality within Schedule

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- Risk #1: Full functionality cannot be provided within the current schedule
  - Probability:
  - Impact:
- Risk #2: Users may be unwilling to accept COTS-based functionality that can be provided within schedule
  - Probability:
  - Impact:



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## Requirement 3 – Replace or integrate current interfaces

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- Description/Notes
  - DEAMS is required to replace or integrate with a large number of existing legacy interfaces. Currently the first increment is looking at 44 inbound and 24 outbound interfaces
  - DEAMS envisions the use of standard Extract-Translate-Load tools to accomplish these interfaces, but significant work in mapping data structures and encoding business rules into the translation will be required for each interface
  - Several COTS vendors have advertised existing implementations of required interfaces, but it is not clear that these will meet DEAMS requirements fully
  - Implementation of replacement interfaces requires coordination and concurrence with parties outside of DEAMS and can be time consuming and costly
  - The number of interfaces involved indicates this will be a significant part of the total DEAMS effort



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## Requirement 3 Risks – Replace or integrate current interfaces

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- Risk #1: Unable to implement required interfaces as rapidly as planned
  - Probability:
  - Impact:
- Risk #2: COTS generated interfaces may not be accepted by interface partners
  - Probability:
  - Impact:



## Requirement 4- Security

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- Description/Notes
  - While the basic data to be used with DEAMS is unclassified, there is a possibility that system security will have to be maintained at a higher level
    - The stored aggregate data from DEAMS may have to be classified at a higher level
    - DEAMS may be required to interface with classified elements within the Air Force Hierarchy. This could result in a requirement for security at a higher level.
    - As a Joint Program, DEAMS may be subject to more stringent security requirements
  - The DEAMS architecture and application must be designed to meet these more stringent security requirements





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## Requirement 4 Risks - Security

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- Risk #1: DEAMS data may be assessed as classified due to data aggregation
  - Probability:
  - Impact:
- Risk #2: The selected COTS may not be certified at the required level of security
  - Probability:
  - Impact:
- Risk #3: The DEAMS interfaces may not support interoperability with classified systems
  - Probability:
  - Impact:



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## Requirement 5- Increment Concurrency

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- Description/Notes
  - DEAMS is being developed to be deployed in increments.
  - The third increment expand the scope of DEAMS beyond USTRANSCOM and potentially incorporates requirements not yet specified
  - The deployment schedule requires some overlap in these increments, at least in terms of requirements analysis and specification
  - This required concurrency of increments complicates contracting actions and may require government resources beyond those currently planned



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## Requirement 5 Risks - Increment Concurrency

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- Risk #1: The government/integrator teams will be unable to support concurrent development of increments due to interdependencies or other technical reasons
  - Probability:
  - Impact:
- Risk #2: The government/integrator teams will be unable to support concurrent development of increments within the current schedule and budget
  - Probability:
  - Impact: